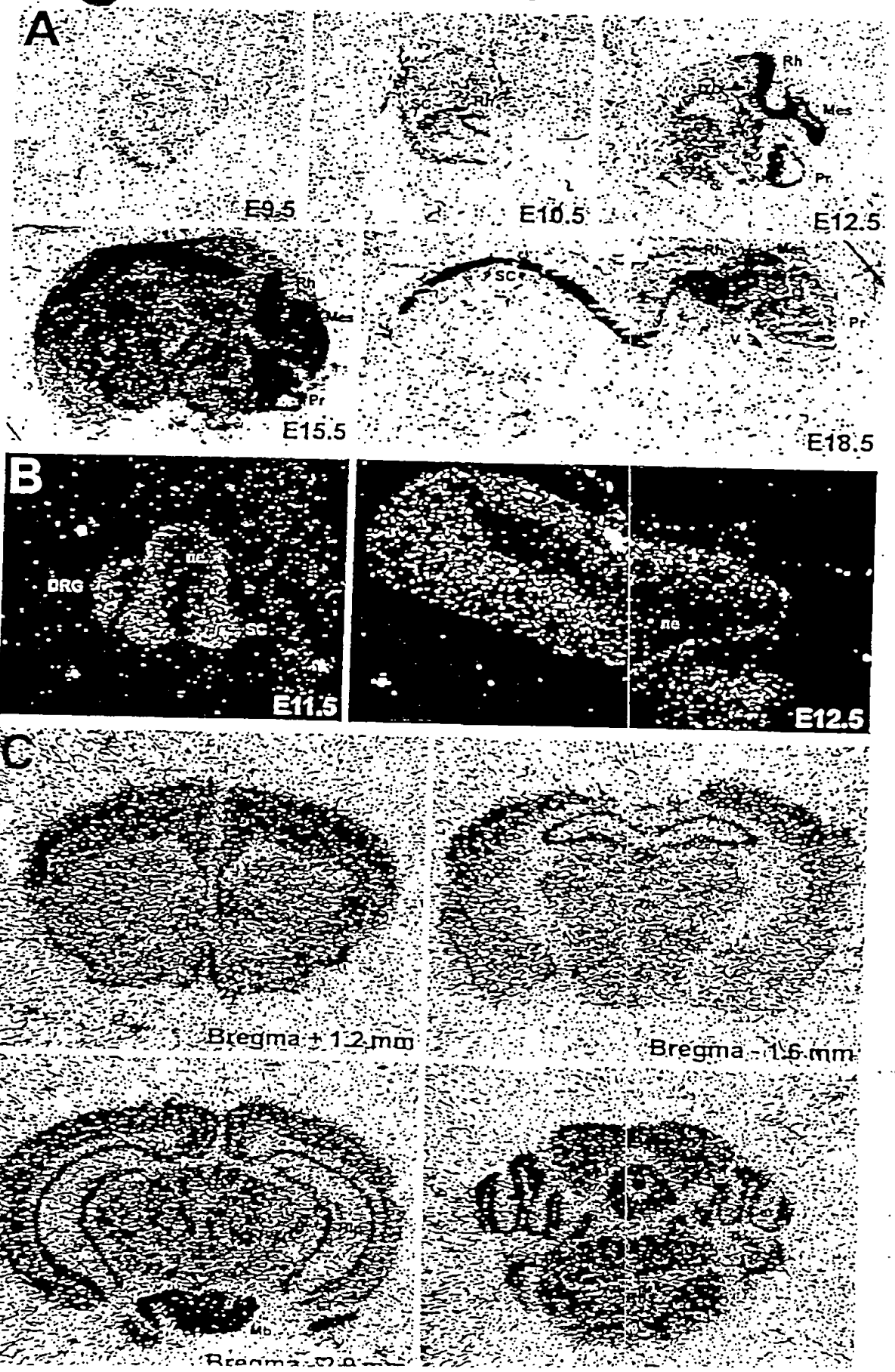
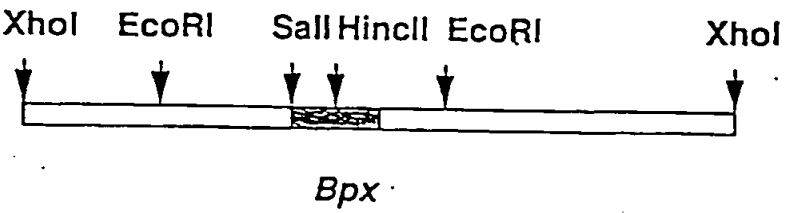

A
E9.5
E10.5
E12.5
Rh
Mes
Pr
SC
E15.5
E18.5
B
DRG
ne
SC
E11.5
E12.5
C
Bregma + 1.2 mm
Bregma - 1.6 mm

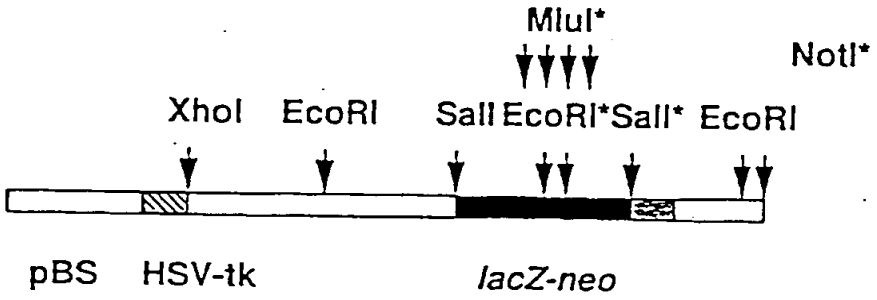
FIGURE 1

FOR 3 SEQUENCE

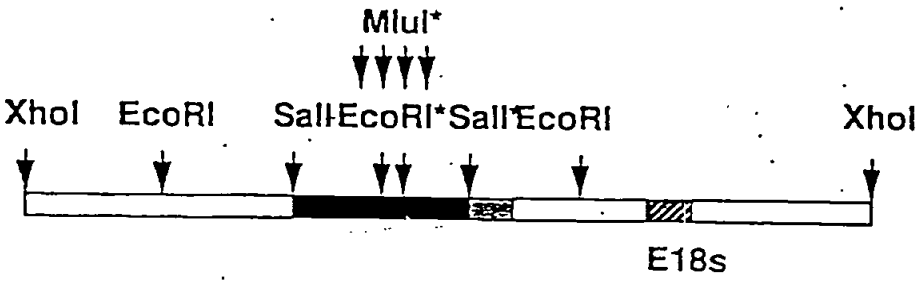
a



b



c



* introduced sites

FIGURE 2

08476555-050201

FIGURE 3

T0E050"5997h860

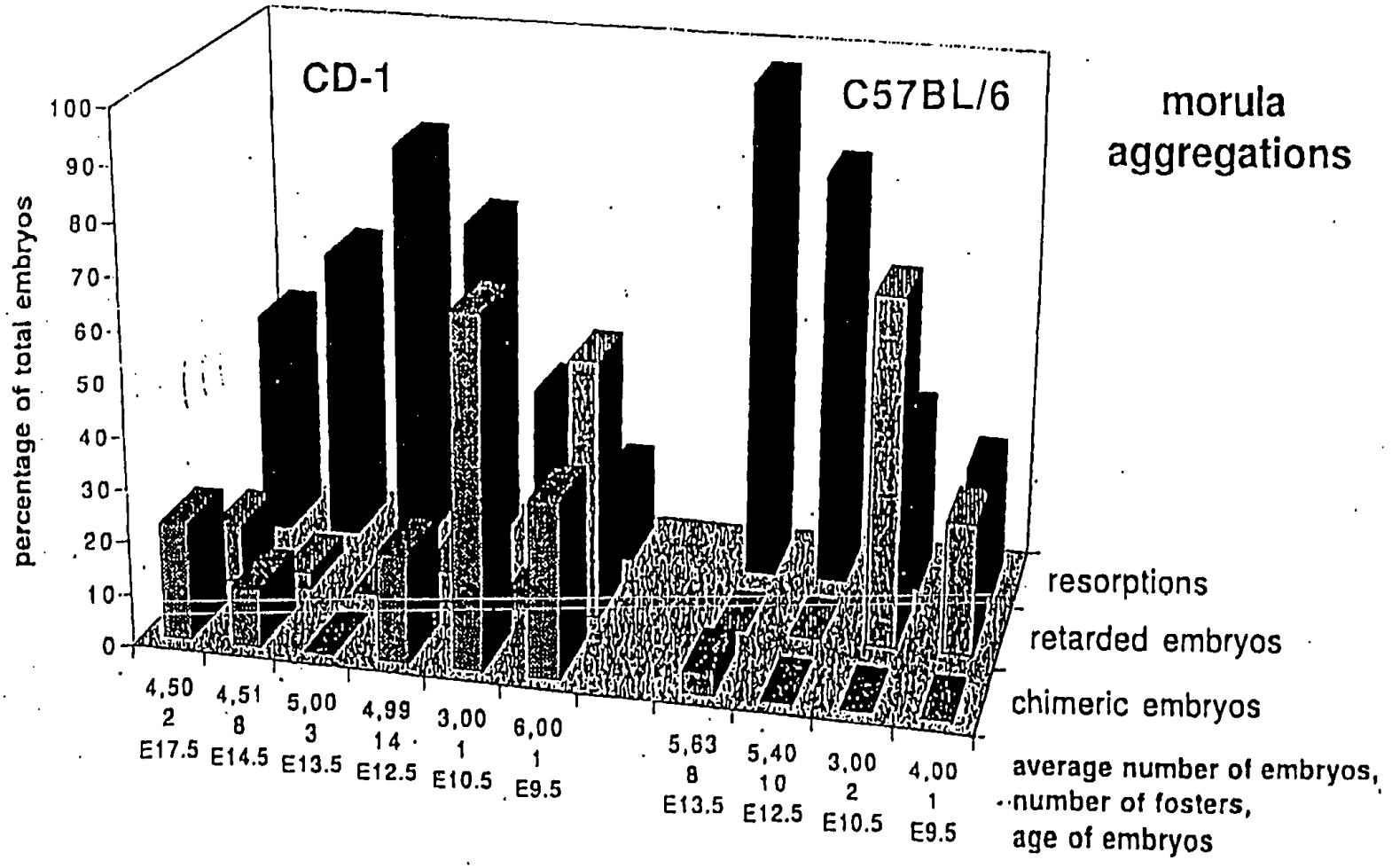


FIGURE X

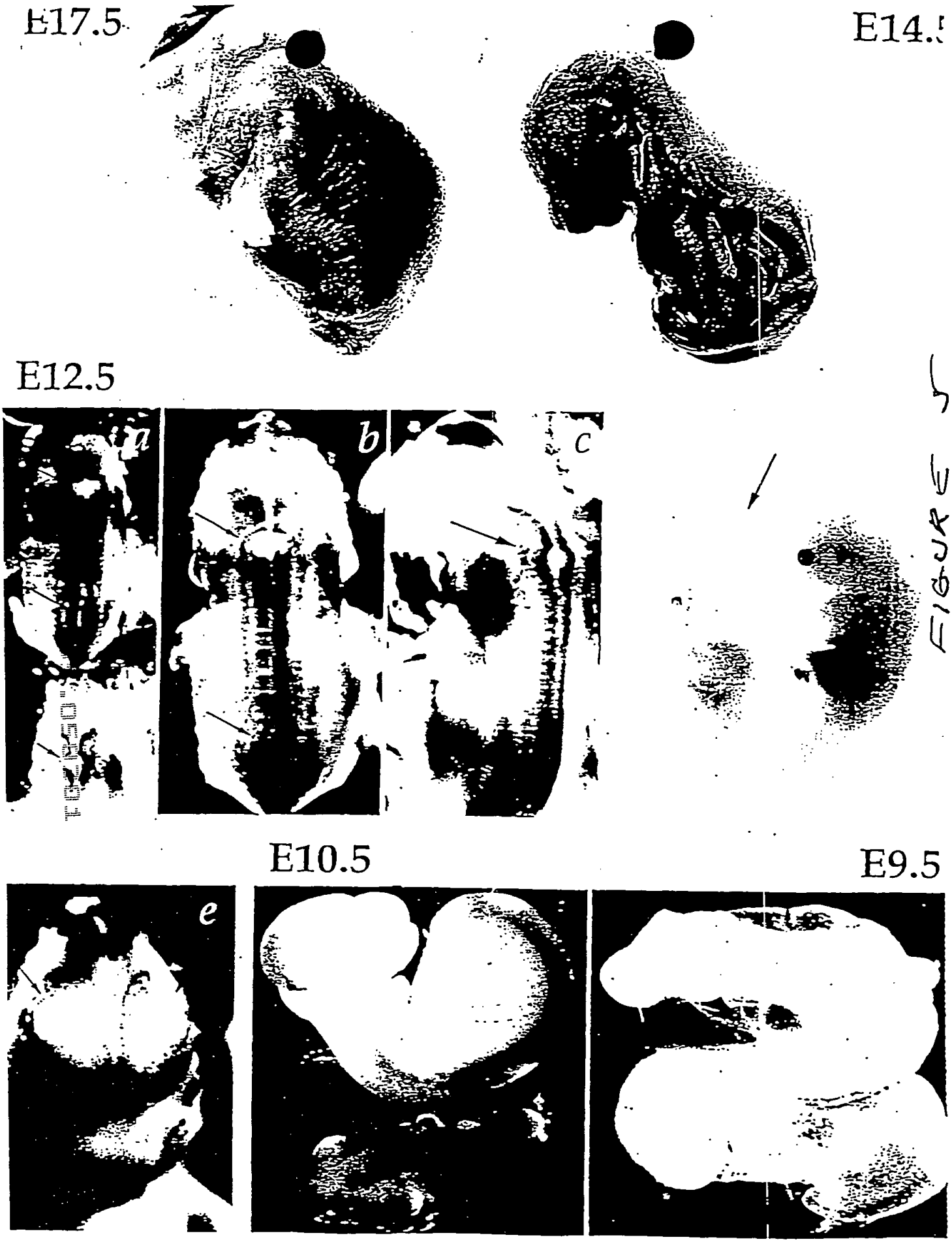


FIGURE 1

FIGURE 9

FIG. 7

Sequence clone *Bpx* promoter murin SpeI-SalI fragment

ACTAGTCATATAGCTGGCTCTTTTACAAAAGGCTTCAACACCCCTCCCCC
CACACTTTAGTCATCCGTCATCTCTTCCTCATCAGGAAATATTATGAGAA
TTTTCCCATTTAAAATCACACAGGTTGTGAAAATTACAGAAACCAGGGTA
CAGAATATTTAAACCACTGTCAGTTACATCATCCAAAGGCCACCTATGCT
TATTTTTGGTAATTTTAAACCTCAAAGGATCTCTTTGTGGGCTCCTCCACT
ACCCTCCTCTCTTTCCCAGAGCCTCAGGTTATAACCAAAGGGATAGACTA
AAGACAATCCAGTACCTTGCCCATTTTTTTCATTCCTTGTCACTGTTTCCA
TATAGCTCTTTTGAAATTATGAACATATAGTATCAGTTGAAAACGGAATG
AATGATACTGCATTTCTGCAAAATTCCACAGGCTATAGGGTGGAAGATG
AGCCATAGGTGGAGGAATCAGCCATATTAGAGAATCTGGGAAGGCAAG
AGGTGTTGAAATTTTGATTCATCTACTAATTTACTGGCTCAGGATTTGTC
AATCACTGCAGCCTGGCAAATGAGATTAGAGAAGAGTCCTGGGAGGGA
AGGGGTGACGCAGCAACCTGCATACACTTAAAAAAAAAAGAGCTGAGAG
ACAACTGCGTAATCATACTGCGGCACCAGTTCCTCCATCCCTCCGCCCCC
GAGTGGCTGGAGCAGCTGCTTGCGGAGGTCTGCCCACTGCGGCTCTCTG
CAGTCTCTAGCCTGTTCCTTCAGGGCCTAGAGTCTCCGCCCAGACAGCCG
GTTTCAATTCTGCTATCCCAGCTTCAGCACCGTCTTTTATACTGCTTGCTG
CCTGCCATCAGTGCAGCCGCCGCCGCCTCTTGGTTCATCTCTGCCAGATC
ATCGCGCATCTGCTGTATTGGTGAGTCTTCCTGCGGAGGTCAGGTCTCCT
GATCTGCGGGCTTAGCCACCATAAGTGCAGGCGATCGTTTGAAAACAAT
GGCTGAATCAGTCGACCTCGAGGGGGGGCGTACCTTGCCCATTTTTTTCA
TTCCTTGTCACTGTTTCCATATAGCTCTTTTGAAATTATGAACATATAGTA
TCAGTTGAAAACGGAATGAATGATACTGCATTTCTGCAAAATTCCACAG
GCTATAGGGTGGAAGATGAGCCATAGGTGGAGGAATCAGCCATATTAGA
GAATCTGGGAAGGCAAGAGGTGTTGAAATTTTGATTCATCTACTAATTTA
CTGGCTCAGGATTTGTCAATCACTGCAGCCTGGCAAATGAGATTAGAGA
AGAGTCCTGGGAGGGAAGGGGTGACGCAGCAACCTGCATACACTTAAA
AAAAAAGAGCTGAGAGACAACTGCGTAATCATACTGCGGCACCAGTTCC
TCCATCCCTCCGCCCCCGAGTGGCTGGAGCAGCTGCTTGCGGAGGTCTG
CCCACTGCGGCTCTCTGCAGTCTCTAGCCTGTTCCTTCAGGGCCTAGAGT
CTCCGCCCAGACAGCCGGTTTCAATTCTGCTATCCCAGCTTCAGCACCGT
CTTTTATCCCCACTGCTTGCTGCCTGCCATCAGTGCAGCCGCCGCCGCCT
CTTGGTTCATCTCTGCCAGATCATCGCGCATCTGCTGTATTGGTGAGTCT
TCCTGCGGAGGTCAGGTCTCCTGATCTGCGGGCTTAGCCACCATAAGTG
CAGGCGATCGTTTGAAAACAATGGCTGAATCAGTCGAC

[SEQ ID NO:1]

0 0 8 4 5 0 5 0 - 0 5 5 0 3 0 4

FIG. 8

Sequence Bpx murin cDNA identical to genomic DNA

GTACCTTGCCCATTTTTTTCATTCCTTGTCACTGTTTCCATATAGCTCTTTT
GAAATTATGAACATATAGTATCAGTTGAAAACGGAATGAATGATACTGC
ATTTCTGCAAAATTCCACAGGCTATAGGGTGGAAGATGAGCCATAGGTG
GAGGAATCAGCCATATTAGAGAATCTGGGAAGGCAAGAGGTGTTGAAAT
TTTGATTCATCTACTAATTTACTGGCTCAGGATTTGTCAATCACTGCAGC
CTGGCAAATGAGATTAGAGAAGAGTCCTGGGAGGGAAGGGGTGACGCA
GCAACCTGCATACACTTAAAAAAAAAAGAGCTGAGAGACAACTGCGTAAT
CATACTGCGGCACCAGTTCCTCCATCCCTCCGCCCCCGAGTGGCTGGAG
CAGCTGCTTGCGGAGGTCTGCCCACTGCGGCTCTCTGCAGTCTCTAGCCT
GTTCCTTCAGGGCCTAGAGTCTCCGCCCAGACAGCCGGTTTCAATTCTGC
TATCCCAGCTTCAGCACCGTCTTTTATCCCCACTGCTTGCTGCCTGCCATC
AGTGCAGCCGCCGCCGCCTCTTGGTTCATCTCTGCCAGATCATCGCGCAT
CTGCTGTATTGGTGAGTCTTCCTGCGGAGGTCAGGTCTCCTGATCTGCGG
GCTTAGCCACCATAAGTGCAGGCGATCGTTTGAAAACAATGGCTGAATC
AGTCGACCATAAAGAACTGTCTGAATCCAACCAAGAAGAGCTTGGCAGC
CAGGTAATGGCGGAGGGGCCCGGGGAAAGTCAGGACCGCAGTGAAGGT
GTCTCCATTGAGCCTGGAGATGGCGGGCAACATGGTGAAGAAACCGTGG
CTGCTGGAGTAGGGGAAGAGGGAAAAGGTGAAGAAGCTGCTGCAGGGT
CTGGGGAAGATGCTGGGAAGTGCGGAGGCACTGATGAGGACTCAGACT
CAGACCGTCCAAAAGGACTTATCGGTTATCTTTTAGATACCGATTTCGTT
GAAAGTCTCCCAGTGAAAGTTAAGTGCCGAGTGCTAGCTCTTAAAAAGC
TTCAAACAAGAGCTGCCCATTTGGAATCCAAATTCCTGAGGGAATTTCAT
GACATTGAAAGGAAGTTTGCTGAAATGTACCAACCCTTACTAGAAAAAA
GACGACAGATCATCAATGCAGTCTATGAGCCCACAGAAGAGGAATGTGA
GTATAAATCGGACTGTGAGGACTATTTTGAGGAGGAGATGGATGAGGAG
GAAGAGACTAACGGCAACGAAGACGGTATGGTGCATGAATACGTGGAT
GAAGATGATGGTTATGAGGACTGTTATTATGATTATGATGACGAGGAAG
AAGAGGAGGAGGAAGATGACAGCGCTGGGGCCACCGGAGGAGAAGAG
GTTAACGAAGAGGATCCTAAGGGGATTCCGGATTTTTGGTTGACTGTTTT
AAAAAATGTTGAAGCACTCACTCCTATGATTAAGAAATATGATGAGCCT
ATTCTGAAGCTGCTGACAGATATTAAAGTGAAGCTTTCGGATCCCGGGG
AGCCTCTCAGCTTCACACTCGAATTTCACTTCAAGCCCAATGAATATTTT
AAAAATGAGCTGTTGACAAAGACTTATGTGCTGAAGTCAAAGCTTGCAT
GCTACGATCCCCACCCTTATAGGGGAACTGCCATTGAGTACGCCACTGG
CTGCGACATAGATTGGAACGAAGGGAAGAATGTCACTTTGAGAACCATC
AAGAAGAAGCAGAGACATCGCGTCTGGGGAACTGTCCGAACTGTGACTG
AAGATTTTCCCAAGGACTCTTTCTTCAATTTCTTCTCTCCTCATGGGATCA
GCTTAAATGGAGGGGATGAAAATGATGATTTTTTACTTGGTCATAATCTG

D0884N0505 - 050303

FIG. 8 cont.

CGTACTTACATAATTCCAAGATCAGTGTTATTTTTCTCAGGAGATGCACT
TGAATCTCAGCAGGAGGGTGTAGTTAGGGAAGTTAATGACGAAATATAT
GACAAAATTATTTATGATGATTGGATGGCTGCAATTGAAGAGGTTAAAG
CCTGTTGCAAAAATCTTGAGGCATTAGTAGAAGATATTGATCGTTAAAAC
AGAGTAGATGCTTTTGAAACTAACTGCTCTACATGCAGTTACTGAAGACA
TAAGCAGTTAATATTGTCTTGTGTTCTGCATTTTTTCCTGTCATGCCAGTT
TAAAAATTCAAATACTAATTAATCTGACCTTGCATTGTAGTGGTATGATG
TTTTCAAGACATGTAGACTGTGATAAATGATTAAGACATTAATAGTCTGT
AGTATAACCCTTCTGAAGTCCTTGTGCCATGTATCTATTAATCTGTGGCT
GTGAATATTATTAGAAGTGCTAAATGAGATTATTTGTTTGCAAAGAAAAT
ATTGGAAACCTACCTAAGAGTGCTTTGCTATTTTCCCCCTTATCCTCTTAG
TGCTTTGGCCAATTGACTTTATTGTGCCTGCTTCATTTTGCAGTAAATATG
CAGTAGAATTTAAAACTTGAATGCCTAAGAGGCCTGCATATGATTGAGA
ATTTCAGGCAAAATCATATTTATTATTGATAACAGCTAGTGCAAGGCTTC
TGATTGTATGTGACTGTGATAAATAATAAAACTCAATTGTATTGAAGTTA
CTGTTTATCATTGACATGTGAGTTACAGTATTTTCAAATGTTGCAAATATT
GTCCTGTGTAATTGTGTAAACTGTGATTACAGTGTACATTTTTTTCATAAT
ATACTGAATCATTCATTGAAATGGACACTTTACCATTTCTGAAAATACAT
TTCATATTCTGTTCATTCACTGAAAAATAAAATGAATAAAAATTT

[SEQ ID NO:2]

Confidential - Subject to Protective Order

FIG. 9

***BPX* human cDNA identical to genomic DNA**

TGTTAGAGAGCCTGGGAAGGTGAGcAGAGcTGAAAACTTGATAGATCTA
ATAATTTACTGGCTCTGGGTTTGTCAGTCACTACATTGCAGCAAATGAGA
TTAGAGCATAGTTGTGGGAGGGAAGGAGGTGACGCAGCAATCTATTTGC
ACCTAGAAATTTTAGGCAAGTGATAGCTGCGTAATCATACTGCGGCACC
GTTTTTTTCTTGCAGCAGTAGCTGCTTGCGGAGGAGGTCTGCCCACTGCA
GCTCTCTGCAGTCTCCGGCTCTCTCCTGCAGGATCGGTCAACGCAGCCGT
CGCCGCCCTCTGCACCCAGCCCAGGTCGCCACTGCTTCAGTCCGGTTCTC
AAAGCCTCAGCACCATCTTTTATCCCCGAGCAGCCTGGATCGTCGTTCCC
TCAGTCCGGACGCCACTGCTAGGTCCGACCACCGCCGCTTCTGATATTTC
GGTGAGTCTTTTCCTGTGGAGGTTTGGTCTCCCGATCTCTGTGGTAGCCA
CCTTAGGCGTGTACGGTCCTTTGAAAAATGGCCGAGTCAGAGAACCGCA
AGGAGCTGTCAGAATCCAGTCAAGAAGAGGCTGGTAATCAGATAATGGT
GGAAGGGCTCGGGGAACATCTGGAGCGCGGTGAAGATGCCGCTGCTGG
GCTTGGAGACGATGGGAAGTGCGGTGAAGAAGCTGCCGCTGGGCTTGG
GGAAGAAGGGGAAAACGGTGAAGATACTGCTGCTGGGTCCGGGGAAGA
TGGGAAAAAAGGTGGCGATACTGATGAGGACTCAGAGGCAGACCGTCC
AAAAGGACTTATC
GGTTATGTTTTAGATACAGACTTTGTTGAAAGTCTACCTGTGAAAGTTAA
GTACCGTGTGTTAGCCCTTAAAAAGCTTCAAACTAGAGCGGCCAATTTA
GAATCCAAATTCCTGAGGGAATTTCATGACATTGAAAGAAAGTTTGCTG
AAATGTACCAACCCTTACTGGAAAAAAGACGTCAGATCATCAATGCAAT
CTATGAACCTACAGAAGAGGAATGTGAATATAAATCAGACTCTGAGGAC
TGTGATGATGAGGAAATGTGTCATGAAGAGATGTATGGTAATGAGGAGG
GTATGGTACATGAATATGTGGATGAGGACGATGGTTATGAGGACTATTA
TTATGATTATGCTGTGGAAGAGGAGGAGGAGGAGGAGGAGGAGGACGA
CATTGAGGCTACTGGAGAAGAGAATAAAGAAGAGGAGGATCCTAAGGG
AATTCCTGATTTTTGGCTAACTGTTTTAAAAAACGTTGATACACTCACTC
CTTTGATTAAGAAATATGATGAGCCTATTCTGAAGCTCCTGACAGATATT
AAAGTTAAGCTTTCAGATCC

Doc#NY95-0503801.1

FIG. 9 cont.

TGGCGAGCCCCTCAGTTTCACACTAGAATTTCACTTCAAACCCAATGAAT
ATTTCAAAAATGaGTTGTTGACAAAGACCTATGTGCTGAAGTCAAAGCTA
GCATATTATGATCCCCATCCCTATAGGGGAACTGCGATTGAGTATTCCAC
AGGCTGTGAGATAGATTGGAATGAAGGAAAGAATGTCACTTTGAAAACC
ATCAAGAAGAAACAGAAACATCGGATCTGGGGAACAATCCGAACTGTAA
CTGAAGATTTTCCCAAGGATTCATTTTTCAATTTTTTCTCTCCTCATGGAA
TCACCTCAAATGGAAGGGATGGAAATGATGATTTTTTACTTGGTCACAAT
TTACGTACTTACATAATTCCAAGATCAGTATTATTTTTCTCAGGTGATGCA
CTGGAATCTCAGCAGGAGGGGGTAGTTAGAGAAGTTAATGATGCAATTT
ATGACAAAATTATTTATGATAATTGGATGGCTGCAATTGAGGAAGTTAAA
GCTTGTTGCAAAAACCTTGAGGCATTAGTAGAAGACATTGATCGTTAGA
GCAGAGTATACATGGCCCTGAAATTAACTgCCCTAGATATAGTTACTCAA
GGTATAAGAAgCCTTGTGTTCTGTATTTTgCTTTGTAGTGTTAGTTAAAAC
ATATGTTTCAAAAATATAAGAAAAGTTCAAAAACTAATTAATTTGACCTT
GAGTTTTAGTAGTAGAATGTTTTCAAGAAATGTACACTGTGGTAAATGAT
TTAAAACACTAGTATAGTGTTGTGTAGCTTAATCCTTCTGAAGTCTTTTTG
TCATGTAGCTATTAATCTGTGGCTATGAAATGATCAGAAATGCTAAGTGA
GATCAATATTTGTTTGGAAAAAAAATCTTGGGAAACAACCCAAGGGTTTT
CGCTGTTGTTGTTTTTCTTTTTCTATTTTTGTTTACTTAGTCCTTTAGCTAG
TGGATTTAATTTTGTTGTGCCTGCTTCATTTTGCAATAACAATGCAGTAG
AATTTAAAACTTGGATGCTTAAGAGGCCTGCATATAGATAAGAATTTCAG
GCAAAACTACATTTATTGTTAATAACAGCTTGTTCATAGGCTCTTGTATTT
TATGTAACTGTGATAAATAATGAAAACTTAGTTATATTGAGGTTATTGTT
TGTCGGTGAAGTGTTAGTCACAGTATTTTCAAAAGTTTGCACATATTGTT
CTGTGTAATTGTGTAAGCCATAATTACAGTGTTTAATTCTCTTTTCCTATT
ACATCATTCATTGAAAGTGATCACTTTACCATTTTGAAAAGATATTTCGT
GTTCTTTCACTGCAAAATAAAAAGAATAAAAATTTCAGAGTGTCTCATGG
AATTCC

[SEQ ID NO:3]

Exhibit 1008 - Page 9 of 9

FIG. 10

human *BPX* 5' region

ACTTAAAGGAAAAATTTATCTATAAACTGACAGAATTTAGAAATAAATA
CAACAATATGTAAACAGTTTTAATATCTGTGATAGTAACAAATTCTTTAA
ATCTGGAAAATAATAGTCACTTAAAATTTTAAAAAATTGTTCAATTAATA
AATGATCCAAGTTAGAAATATGAACAAAATAAACCTCACCAATAATTAC
TATAGAGAGGAAATTTTAATTACTGCAAAGCTTTCCATCCTATAAATACA
TTATCAAATAGTTTAACCATTTCTTTAATGCTGAGATTTAGATTATTTCCA
ATTAACTCAAAAGCATCAAGCAAATGTTATGATTTCTAAGAATAAACATA
ACTTTCCATTTTGGCTTTTGTATATATGTATATTTCTAACGGCTGTTAAAG
CCAGCATTAAGAAGGAGAAGCAGAAAGTCAGTATTGGGACTGGGGTTAT
TTATAAGCCAGGCAACTGGTTAATTGTGGTTAATTGTCTGGTATGTTTAC
TAGTCACGTAGTTGTATACACCATACTAGTTTTTCATCACAGGCCCTCAT
TCGCCCCCACTGCCATCGGACTTCCTCCTCCTCCCCTCACAGGAAATGTT
TCGAGAATTTTTCAACCTAAAATCATATAGCTTGTGAAAAATACCGACAA
ACATAATATAGAATATTTAAATAACTGACACGCCACCTAAAGACCATCA
GTGCTAATTCCTGGTGTTTTTAATCTTTGAAGCGTTTGTTTATCAGCTCTT
CCACCATCCACCTCTCCCCTCCCCAGGTCCCCGATCTAAAATCAAAGAG
ATTGATTTAGGATGGGTGGGTGCCTTGTCTTCTCTCATTGTTCGACATTTT
AGTTACGTTTTCTCTGAGCTCTCTGGAAAGCATAAAAGTATAATATCTGT
TAAAAGTTGGATGAATGAACTAATGAACGCAATGGGATTCCAGAAAACT
CTGCGGGAGATGGGCTAGAGGACGAGGAGGAGGTGGATGAATCAGCCA
TGTTAGAGAGCCTGGGAAGGTGAGCAGAGTTGAAAACTTGATAG
ATCTAATAATTTACTGGCTCTGGGTTTGTCAGTCACTACATTGCAGCAAA
TGAGATTAGAGCATAGTTGTGGGAGGGAAGGAGGTGACGCAGCAATCTA
TTTGCACCTAGAAATTTTAGGCAAGTGATAGCTGCGTAATCATACTGCGG
CACCGTTTTTTTCTTGCAGCAGTAGCTGCTTGCGGAGGAGGTCTGCCCAC
TGCAGCTCTCTGCAGTCTCCGGCTCTCTCCTGCAGGATCGGTCAACGCAG
CCGTCGCCGCCCTCTGCACCCAGCCCAGGTCGCCACTGCTTCAGTCCGGT
TCTCAAAGCCTCAGCACCATCTTTTATCCCCGAGCAGCCTGGATCGTCGT
TCCCTCAGTCCGGACGCCACTGCTAGGTCCGACCACCGCCGCTTCTGATA
TTTCGGTGAGTCTTTTCCTGTGGAGGTTTGGTCTCCCGATCTCTGTGGTA
GCCACCTTAGGCGTGTACGGTCCTTTGAAAA

[SEQ ID NO:4]

Docket No. 0508-1000

1,066,550 - 55-74850

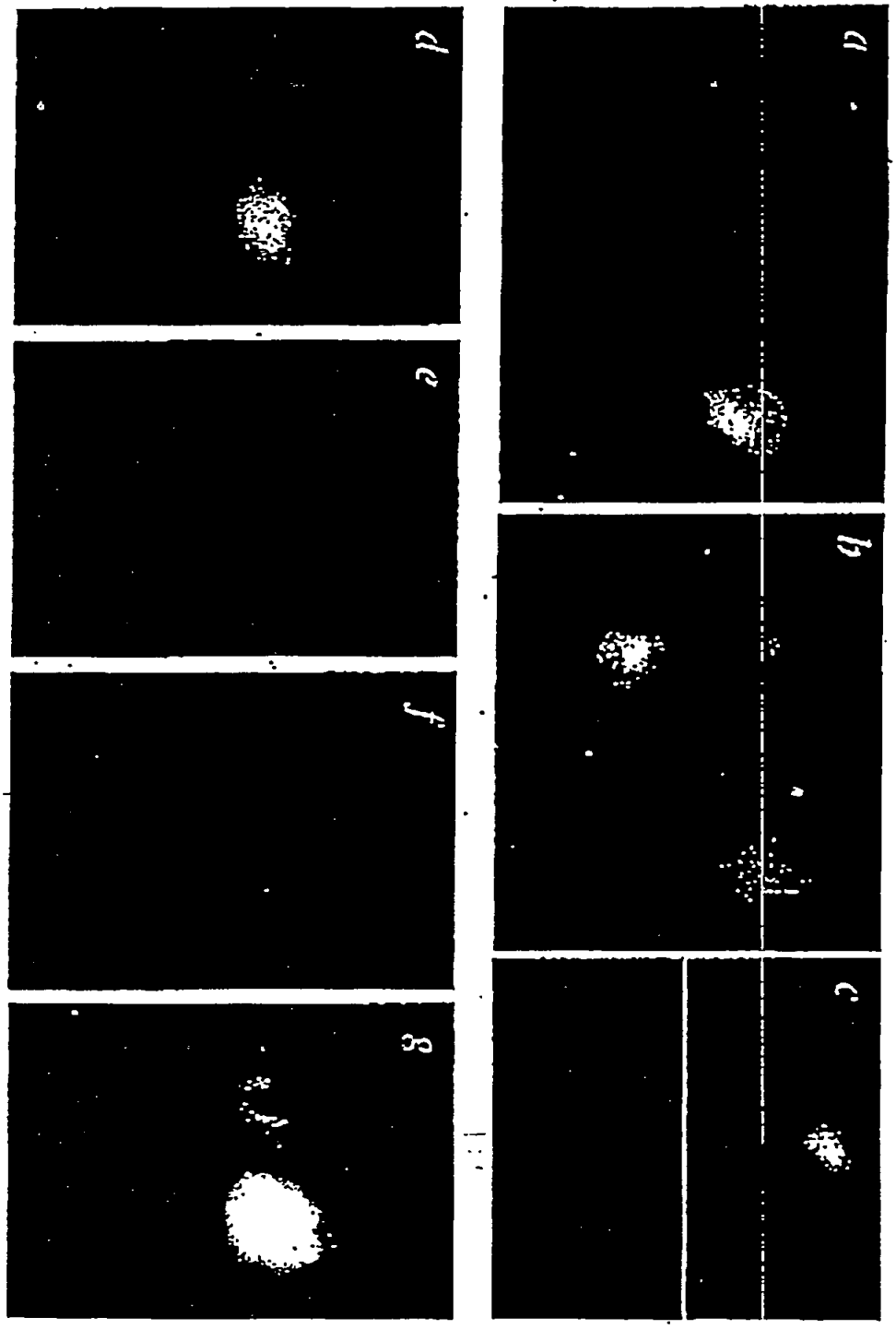


FIGURE 11

TOE050"5994860

Genomic structure of the *NAP1L2* gene

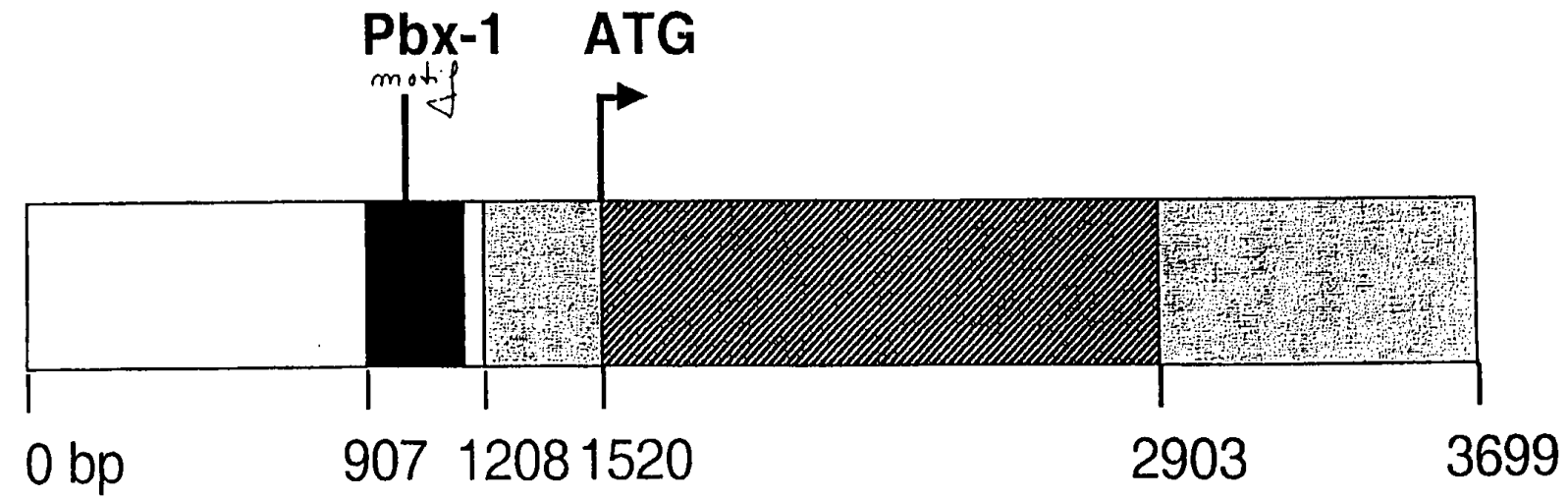


FIGURE 12